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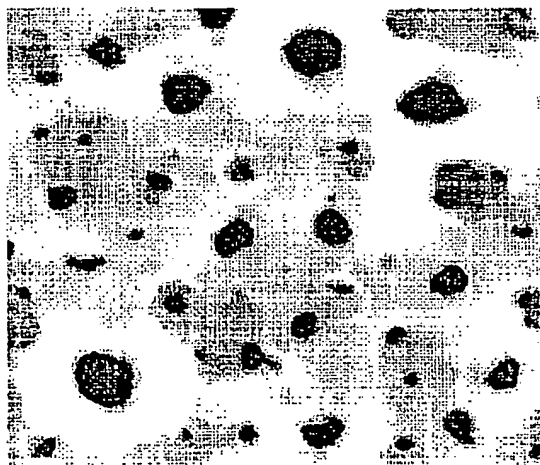
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ning of each regular issue of the PCT Gazette.*

(54) Title: OSSEOINDUCTIVE MAGNESIUM-TITANATE IMPLANT AND METHOD OF MANUFACTURING THE SAME



(57) Abstract: The present invention relates to a magnesium titanate oxide film implant for insertion into a living body, utilized in medical fields such as dentistry, orthopedic surgery, maxillofacial surgery and plastic surgery, and a method for preparing the same. The magnesium titanate oxide film implant in accordance with the present invention is prepared by forming a titanium oxide film (a magnesium titanate oxide film) in which magnesium is incorporated into the surface of titanium or a titanium alloy. A process for preparing a magnesium titanate oxide film implant in accordance with the present invention comprises irradiating UV light on an implant body made of titanium or a titanium alloy in distilled water for more than 2 hours; dipping the UV light-irradiated implant body in an electrolyte solution containing magnesium; and coating a magnesium titanate oxide film on the dipped implant body by anodic oxidation at a voltage of 60 to 500 V. Therefore, the present invention can provide an implant having increased bioactivity of a titanium oxide film formed by anodic oxidation, and provides an optimum magnesium titanate oxide ($Ti_xMg_yO_z$) thickness for successful osseointegration of the magnesium titanate ($Ti_xMg_yO_z$) implant.



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